Factory-Verified Replacement

MERYDOM 16333001

Certified for interchange with Kaydon 16333001. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

LEVEL 3 - MERYDOM ENGINEERING VERIFIED

Reviewed by MERYDOM Engineering Department. Final application approval must confirm loads, duty cycle, mounting rigidity, bolt capacity, lubrication and operating conditions.

MERYDOM MODEL	REFERENCE
16333001	**Kaydon 16333001**
SERIES	STRUCTURE
XR Series	**Cross roller**
OVERALL OD	OVERALL ID
2,002.003 mm	**1,597.99 mm**
OVERALL HEIGHT	GEAR
150.012 mm	**Internal gear**

No public model drawing is attached to this record. Submit the application and required interface format for final drawing confirmation.

Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

MERYDOM CERTIFIED PRODUCT	
Product brand	MERYDOM
MERYDOM model	16333001
Certified interchangeable with	Kaydon 16333001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	2JSLIR2JIUNYOYJNF73CEXXGUY
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	Kaydon
Reference series	XR Series
Reference model	16333001
Bearing structure	Cross roller
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	78.819 in | Metric reference: approximately 2,002 mm
Overall inside diameter (di)	62.913 in | Metric reference: approximately 1,597.99 mm
Inner ring body ID (dr)	65.157 in | Metric reference: approximately 1,654.99 mm

Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

DIMENSION (CONTINUED)	
Overall height (H)	5.906 in | Metric reference: approximately 150.01 mm
Assembly weight (G)	2050 lb | Metric reference: approximately 929.864 kg
MOUNTING	
Outer ring bolt circle (Lo)	76.575 in | Metric reference: approximately 1,945.01 mm
Inner ring bolt circle (Li)	67.520 in | Metric reference: approximately 1,715 mm
GEAR	
Gear pitch diameter (D2)	63.307 in | Metric reference: approximately 1,608 mm
Gear tooth count (z2)	134
PERFORMANCE	
Maximum gear tooth load (Fz)	40350 lbf | Metric reference: approximately 179.49 kN
Moment load rating (Crm)	1315740 ft lbf | Metric reference: approximately 1,783.9 kN m
PERFORMANCE RATINGS	
Moment	1315740.0000000000 ft lbf | Metric reference: approximately 1,783.9 kN m
Gear Tooth	40350.0000000000 lbf | Metric reference: approximately 179.49 kN
Dynamic Radial	406070.0000000000 lbf | Metric reference: approximately 1,806.29 kN | L10: 1,000,000 revolutions | Not simultaneous with other listed dynamic ratings
Dynamic Thrust	459660.0000000000 lbf | Metric reference: approximately 2,044.67 kN | L10: 1,000,000 revolutions | Not simultaneous with other listed dynamic ratings
Dynamic Moment	1315740.0000000000 ft lbf | Metric reference: approximately 1,783.9 kN m | L10: 1,000,000 revolutions | Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	48 holes - 1.181

Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

MOUNTING INTERFACES (CONTINUED)	
Inner ring mounting	48 holes - 1.181
GEAR INTERFACE	
Pitch system	MODULE
Module reference	12 mm
Number of teeth	134
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	100
Printed page	98
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID

2JSLIR2JIUNYOYJNF73CEXXGUY

SOURCE DOCUMENT

KAYDON-CAT390

SOURCE FILE

Kaydon_Catalog_390.pdf

SOURCE LOCATION

PDF page 100 | Printed page 98

VERIFICATION

Level 3 - MERYDOM Engineering Verified

REVIEWED BY

MERYDOM Engineering Department

Engineering Confirmation Boundary

1. Confirm the exact model designation and all installation-envelope dimensions.
2. Confirm mounting-hole quantity, bolt circle, hole specification, bolt grade and preload.
3. Confirm gear arrangement, pitch system, tooth count, backlash and mating-pinion data.
4. Confirm axial, radial and moment loads, load combinations, duty cycle and required life.
5. Confirm support flatness and stiffness, lubrication, sealing, temperature and environment.
6. Final drawing revision, manufacturing tolerances and documentation package are confirmed with the quotation.

Request Price, Delivery and Final Engineering Confirmation

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: https://rotnex.com/products/slewing-bearing-replacements/kaydon/16333001/